

IR 44 CF-II

Next-Generation Digital Recording

ATIS' IR 44 CF-II recorder: extremely compact design, removable archiving medium, direct access to recordings

The new IR 44 CF-II from the ATIS VoiceCollect® family heralds the next generation of digital voice recording systems. Its compact design and impressive characteristics make the IR 44 CF-II the ideal solution for all mobile and semi-mobile applications. Due to this concept, the system is also perfectly suited for use in small control centres run by law enforcement agencies and other organisations involved in safety and security.

With the IR 44 CF-II system, all recorded calls are archived on removable CompactFlash cards. Thanks to high-performance voice compression, one 512 MB card can store for example up to 210 hours of conversation in excellent quality.

The IR 44 CF-II comes optionally with two or four analogue signal inputs or with two analogue inputs and one ISDN BRI interface. In the case of analogue telephone lines, the system analyses DTMF, caller ID and CLIP information, which are stored as additional data to the conversations. With ISDN connections, the D channel protocol is evaluated, and for recording VoIP communication, the SIP (active and passive) and H.323 protocols are supported. All recordings are archived with time and date stamps. The internal time base can be synchronised with the ATIS protocol using a DCF77 receiver or other time source.

The device is operated using function keys and an LCD display. Separate keys are available for direct selection of the individual recording channels (up to 4), with LEDs indicating the status of each channel. Calls can be recorded and played back simultaneously, independently of each other. An integrated, adjustable loudspeaker is available for local replay from the device. Moreover, there are also connections on the front panel for headphones and for output to an auxiliary device. The "NET" version of the IR 44 CF-II, which is specifically designed for use in a network, is controlled completely via the LAN and therefore not equipped with an operating panel.

Calls can also be replayed via a TCP/IP network with the assistance of a software client. A player application is available for playing back stored calls from the CF card on a desktop PC or notebook. Recordings can be exported as standard WAV files or in ATIS' own proprietary format and stored on any medium for further processing / archiving. ATIS' Audio-Center software additionally allows automated call archiving over a LAN.



Particular performance characteristics

- 19-inch half rack with 3 HU
- Extremely simple operation via function keys on the device
- Special front panel for integration into control centre console
- Various DC power supply options
- Analogue, ISDN and VoIP interface
- 2-channel or 4-channel recording
- Simultaneous, independent recording and replay
- Call archiving on CF cards
- Call replay and administration via LAN
- Overwrite protection
- Maintenance-free
- Optimised for mobile use

IR 44 CF-II

Technical Data

| | | |
|---------------------------------|---|--|
| General | Design | 19" half rack, 3 HU |
| | Dimensions | 214 x 128 x 241 mm (W x H x D) |
| | Front panel | RAL 7035 (light grey) |
| | Weight | approx. 2 kg |
| | Interfaces | 100Base-TX (LAN), RS-232, alarm relay |
| | Time synchronisation | NTP via network or RS-232 |
| Recording | Channel capacity | 2 or 4 channels |
| | Interfaces | 2/4 x analogue or 2 x analogue + 1 x ISDN BRI or 2 x analogue + 2 x VoIP or 4 x VoIP |
| | Frequency band | 300 to 3,400 Hz |
| | Analogue specification | Impedance: > 10 k, input voltage: 5 to 500 mV, potential-free |
| | ISDN specification | Parallel to NTBA, DSS1 protocol |
| | VoIP specification | Hub connection; supported protocols: SIP (active and passive) and H.323 |
| | Start of recording | Analogue: voice triggering (VOX), contact triggering (COR), on-hook / off-hook recognition or manually ISDN / VoIP: protocol evaluation |
| | Recording formats | ATIS format (legally admissible) or WAV format |
| | Voice compression | 64, 32, 6.4 or 5.3 kbit/s |
| | CF cards | 512 MB, 1 GB and 2 GB |
| | Recording capacity | 210 (512 MB card), 420 (1 GB card) or 840 channel hours (2 GB card) at 5.3 kbit/s compression |
| | Storage management | FIFO (first in, first out) storage or long-term archiving, manual overwrite protection, internal memory buffer for changing medium (4 to 50 minutes, depending on compression rate selected) |
| Operation | Display | Alphanumeric LCD with 4 x 20 characters |
| | Keys | 6 function keys and 4 channel selection keys with LEDs |
| | Playback | Built-in adjustable loudspeaker, connections for headphones and auxiliary output device |
| | IR 44 CF-II NET | The NET version only allows operation via LAN as there are no integrated display, keys or replay functions |
| Environmental conditions | Operating temperature | 0 to +50 °C |
| | Storage temperature | -10 to +60 °C |
| | Relative humidity | 10 to 95 % (no condensation) |
| Power supply | Input voltage | 9 to 15 V DC or 115/230 V AC (via power adapter) |
| | Power consumption | 12 VA |
| Scope of delivery | 512 MB CF card, AC power adapter (230 V AC), operating manual on CD | |
| Options / accessories | Power supply: 24/48/60 V DC Desktop housing CF cards with 512 MB to 2 GB capacity Special front panel for integration into control centre console Last Call Repeat software for call playback via LAN and from CF cards Software for system administration and configuration AudioCenter software for automatic archiving via LAN DCF77 time signal receiver | |